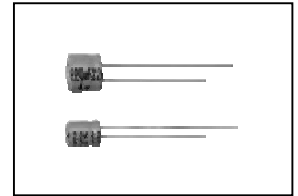


DONGGUAN CITY AMAZING ELECTRONICS CO., LTD.
ALUMINUM ELECTROLYTIC CAPACITOR

SM 5mm Height, 85°C Standard Series

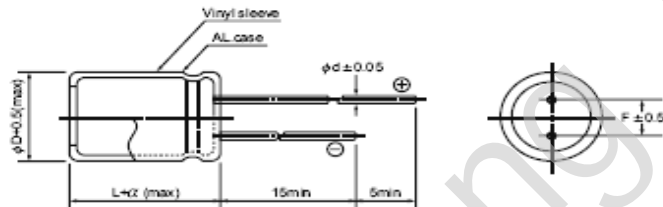
- Miniature sized for general-purpose application.
- Life guaranteed 1,000 hours/85°C



Specifications

| Item | Performance Characteristics | | | | | | | | |
|-------------------------------------|---|---|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|
| Operating Temperature range | -40 + 85°C | | | | | | | | |
| Rated Voltage | 4V ~ 50V | | | | | | | | |
| Capacitance Range | 0.1 ~ 470 μF | | | | | | | | |
| Capacitance Tolerance | ±20% (120Hz, 20°C) | | | | | | | | |
| Leakage Current | I ≤ 0.02CV or 4 μA, whichever is greater after 2 minutes application of rated voltage. | | | | | | | | |
| Dissipation Factor (120Hz, 20°C) | Rated voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | Figures in () are for φ3. |
| | Tan δ (max.) | 0.35 | 0.24 (0.30) | 0.20 (0.24) | 0.16 (0.20) | 0.14 (0.18) | 0.12 (0.16) | 0.10 (0.13) | |
| Temperature Characteristics (120Hz) | Impedance Ratio / Stability at Low Temperature | | | | | | | | |
| | Rated voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | Z (-25°C) / Z (20°C) | 7 | 4 | 3 | 2 | 2 | 2 | 2 | |
| | Z (-40°C) / Z (20°C) | 15 | 8 | 6 | 4 | 4 | 3 | 3 | |
| Load Life | After 1,000 hours application of WV at 85°C, capacitor shall meet the characteristics requirements mentioned below. | | | | | | | | |
| | Capacitance change | Within ±20% of initial value | | | | | | | |
| | Tan δ | 200% or less of initial specified value | | | | | | | |
| | Leakage current | Initial specified value or less | | | | | | | |
| Shelf Life | At 85°C, no voltage applied for 1,000 hours, the capacitor shall meet the limits as in load life. | | | | | | | | |

Case size table Unit: (mm)



| D φ | 3 | 4 | 5 | 6 | 8 |
|-----|------|------|------|------|------|
| F | 1.0 | 1.5 | 2.0 | 2.5 | 3.5 |
| φ d | 0.40 | 0.45 | 0.45 | 0.45 | 0.45 |

Dimensions

| WV(SV) Cap (μF) | D φ x L (mm) | | | | | | | | | | | | | |
|--------------------|--------------|-----|----------|-----|---------|-----|---------|-----|---------|-----|---------|-----|-----------|--------|
| | 4 (5) | | 6.3 (10) | | 10 (13) | | 16 (20) | | 25 (32) | | 35 (44) | | 50 (63) | |
| 0.1 | | | | | | | | | | | | | 4(3)×5 | 1 |
| 0.22 | | | | | | | | | | | | | 4(3)×5 | 2 |
| 0.33 | | | | | | | | | | | | | 4(3)×5 | 3 |
| 0.47 | | | | | | | | | | | | | 4(3)×5 | 4 |
| 1 | | | | | | | | | | | | | 4(3)×5 | 9 |
| 2.2 | | | | | | | | | | | 3 x 5 | 8.4 | 4(3)×5 | 13 |
| 3.3 | | | | | | | | | 3 x 5 | 10 | 4 x 5 | 14 | 4 x 5 | 17 |
| 4.7 | | | | | | | 3 x 5 | 13 | 4 x 5 | 16 | 4 x 5 | 18 | 4 x 5 | 20 |
| 10 | | | 3 x 5 | 15 | 3 x 5 | 17 | 3 x 5 | 23 | 4 x 5 | 25 | 5 x 5 | 29 | 5 x 5 | 33 |
| 22 | 3 x 5 | 19 | 3 x 5 | 28 | 3 x 5 | 31 | 4 x 5 | 33 | 5 x 5 | 38 | 6.3 x 5 | 46 | 6.3 x 5 | 52 |
| 33 | 4 x 5 | 28 | 4 x 5 | 31 | 4 x 5 | 33 | 5 x 5 | 43 | 6.3 x 5 | 52 | 8 x 5 | 62 | 8 x 5 | 71 |
| 47 | 4 x 5 | 33 | 4 x 5 | 35 | 4 x 5 | 37 | 5 x 5 | 48 | 6.3 x 5 | 62 | 8 x 5 | 80 | | |
| 100 | 5 x 5 | 56 | 5 x 5 | 60 | 6.3 x 5 | 76 | 6.3 x 5 | 86 | 8 x 5 | 110 | | | | |
| 220 | 6.3 x 5 | 96 | 6.3 x 5 | 110 | 8 x 5 | 135 | 8 x 5 | 145 | | | | | | |
| 330 | 8 x 5 | 145 | 8 x 5 | 170 | | | | | | | | | | |
| 470 | 8 x 5 | 185 | | | | | | | | | | | Case Size | Ripple |

Ripple current (mA) at 85°C 120Hz